

Python Exercises

1. Write the python code which prompts the user for a number and outputs twice the entered number
2. Write the python code which prompts the user for their name. Output their name in all capital letters.
3. Write the python code which prompts the user for 2 positive integers which are passed to a function which calculates and prints the first number divided by the second number and the remainder.
4. Write the python code which selects a random between 1 and 10 number once. Prompt the user for input until they guess the random number. Print congratulation once they guess it.
5. Write the python code which prompts the user to guess a random number such that each time the user guesses, a new random number is chosen.
6. Write the python code which prompts the user for their age. If they are 19 or younger inform them that qualify for student discounts. If they are between 20 and 54 inform them that they qualify for no age discounts. If they are 55 or over inform them that they can receive senior discounts.
7. Create a new list called babyNames with the following names: Martha, Magda, Mandy, Missy, and Marsha. Write the python code using a for loop to print each of these first names followed by the last name "Smith". Example Martha Smith, Magda Smith, Missy Smith, etc. Then ask the user to add another name to the list. Add this name and reprint the list with the last names
8. Write a function which takes in a number and returns the factorial of that number using a while loop. Print the result
9. Write the same function using a for loop.
10. Create a list of food items for shopping with the following: bread, milk, cheese, eggs. Print a menu for the user where: 1. Add a new item to the list, 2. Delete an item from the list, 3. print the shopping list, 4. exit. If they enter 1, ask them for the name of the item and add it to the list. If they enter 2. ask them for the name of the item they want to delete and remove it from the list. 3. Print out the list of items, 4. Quit

the program. You should continue to print the menu and allow the user to enter items until they choose to exit.